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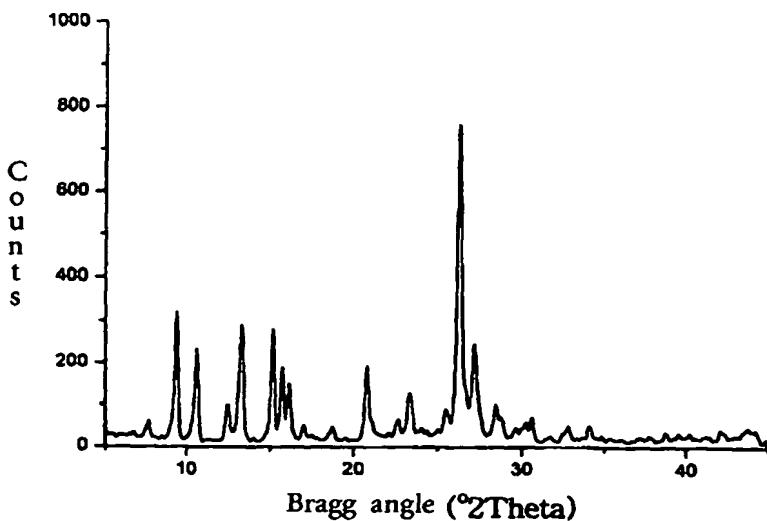
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- (71) Applicant (*for all designated States except US*): **DAEHAN SPECIALTY CHEMICALS CO., LTD. [KR/KR]**; 383, Daejung-Ri, Onsan-Eup, Ulju-Gun, Ulsan City 689-892 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **KWON, Jong Ho [KR/KR]**; #401, 106-Dong, Dongbu Apt., 1412, Jwa-Dong, Kaeundae-Gu, Busan 612-778 (KR). **JUNG, Ki Suck [KR/KR]**; #102, Daedong Villa 4th., 871-18, Daeyoun-Dong, Nam-Gu, Busan 608-021 (KR). **SON, Woo Ho [KR/KR]**; #701, Myoungjin Prime Vil, 876-13, Daeyoun-1-Dong, Nam-Gu, Busan 608-021 (KR). **PARK, Seong Soo [KR/KR]**; #302, 129-Dong, LG Metrocity, Yongho-Dong, Nam-Gu, Busan 608-090 (KR). **KO, Jin Phil [KR/KR]**; 428-239, Nambumin-Dong, Seo-Gu, Busan 602-022 (KR). **JUNG, Hyun Suk [KR/KR]**; 101-303, Kyung Dong Apt., U-1-Dong, Haeundae-Gu, Busan 612-741 (KR).
- (74) Agent: **LEE, Hoon**; 649-14, Yeoksam-Dong, Gangnam-Gu, Seoul 135-080 (KR).
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(54) Title: METHOD FOR PREPARING OXYTITANIUM PHTHALOCYANINE CHARTGE GENERATING MATERIAL AND APPARATUS FOR PREPARING THE SAME



(57) Abstract: Disclosed herein are a method and an apparatus for preparing oxytitanium phthalocyanine as a charge generating material. The method comprises the steps of homogeneously mixing an oxytitanium phthalocyanine crude with an organic solvent while microwave energy having a frequency of 0.1~100 GHz and a power of 10~3,000W and ultrasonic wave energy having a frequency of 1~1,000kHz and a power of 10~5,000W are applied thereto, and reacting the mixture at 30~100°C for 0.5~5 hours. The apparatus comprises: a magnetron 1 capable of generating a frequency of 0.1~100GHz and a power of 100~3,000W; a mode stirrer 3 for making the wavelength of microwaves uniform in a microwave container 2; a PID type temperature controller 9 for accurately measurement and controlling the temperature of reactants; a K-type

thermocouple shielded from microwaves 4; a condenser 5; an agitator 6, the thermocouple 4, the condenser 5 and the agitator 6 being inserted into three openings formed at a top of the microwave container 2; an ultrasonic tip 7 inserted into an opening formed at a bottom of the microwave container 2; a Pyrex container 9 into which the reactants are introduced; and a solvent tank 10. According to the method and the apparatus, an oxytitanium phthalocyanine charge generating material having superior thermal stability and crystal stability can be prepared in an efficient manner.

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